

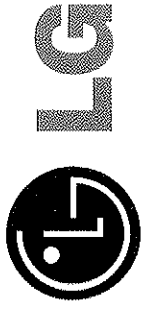


Model:

GR-N281/254

Built-in Fridge/Freezer Installation Manual

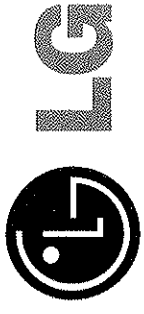




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Built-in Fridge/Freezer Installation Manual





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*** The procedure and method of installation for the refrigerator are the same for the freezer.**

Read the following BEFORE proceeding with installation. :

This manual's descriptions are based on the door opening to the right.
If you want to open the door to the left, install after reading Page 16.

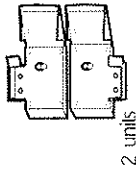
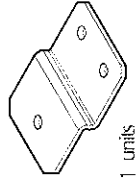
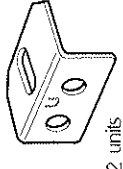
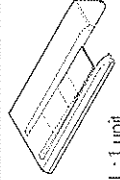
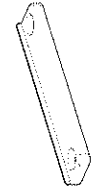
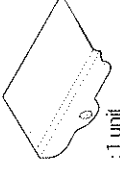
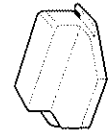
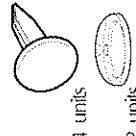
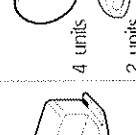
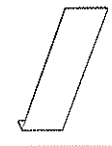
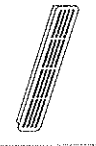
1. Note before installing



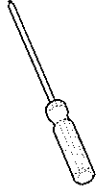
Caution

- Product must be installed in a location away from heat sources such as heaters and hot-water systems. Must also be installed in a location away from direct sunlight. Installation location must have adequate ventilation.
- Prepare cabinetwork in accordance with the instructions to assure adequate ventilation. Be sure that the installation has unobstructed air flow into front air vent. If ventilation is not adequate the normal performance of the product may be impaired or prohibited.
- Install the product in such a way to prevent the ingress of rodents and vermin as damage caused by them may result in fire.
- Install the cabinet door to the refrigerator in such a way to maintain a 5mm gap between the edge of the cabinet door and any adjacent wall.
- Use the specified dimensions for the Integrated door panels. Oversized integrated door panels may sag or cause interference with the correct operation of the product.
- Check there is no lean on the product door after attaching the Integrated door panels. Check to see that the gasket of the fridge/freezer is properly attached.
- Use integrated panel material of sufficient strength to maintain integrity of support screw/bolts under the weight of the panels. i.e. don't use material that will allow the screws to be pulled out easily from the weight of the panels.
- Use Cabinet material that is sealed and won't warp or twist from the heat generated by the product or from the moisture produced by opening and closing the refrigerator doors.
- Make sure surrounding cabinet work is square (within 1mm of horizontal or vertical). Make sure the base plate that the product is placed on is of sufficient strength to not bow or warp under constant weight of the product. Bowing or warping may result in the product not being square with surrounding cabinet work causing interference with the opening and/or operation of the product.
- Installation or removal of this product will require the cooperation of two persons.
- For safety reasons keep children away from the installation location and all installation materials during installation.
- Be sure to keep the installation location neat and tidy, keep screws in a single location and take them only as needed to prevent injury from screws laying around.
- Do not connect product via an extension cord or multi adapter due to risk of fire.
- Test run product prior to installation to assure its correct operation.

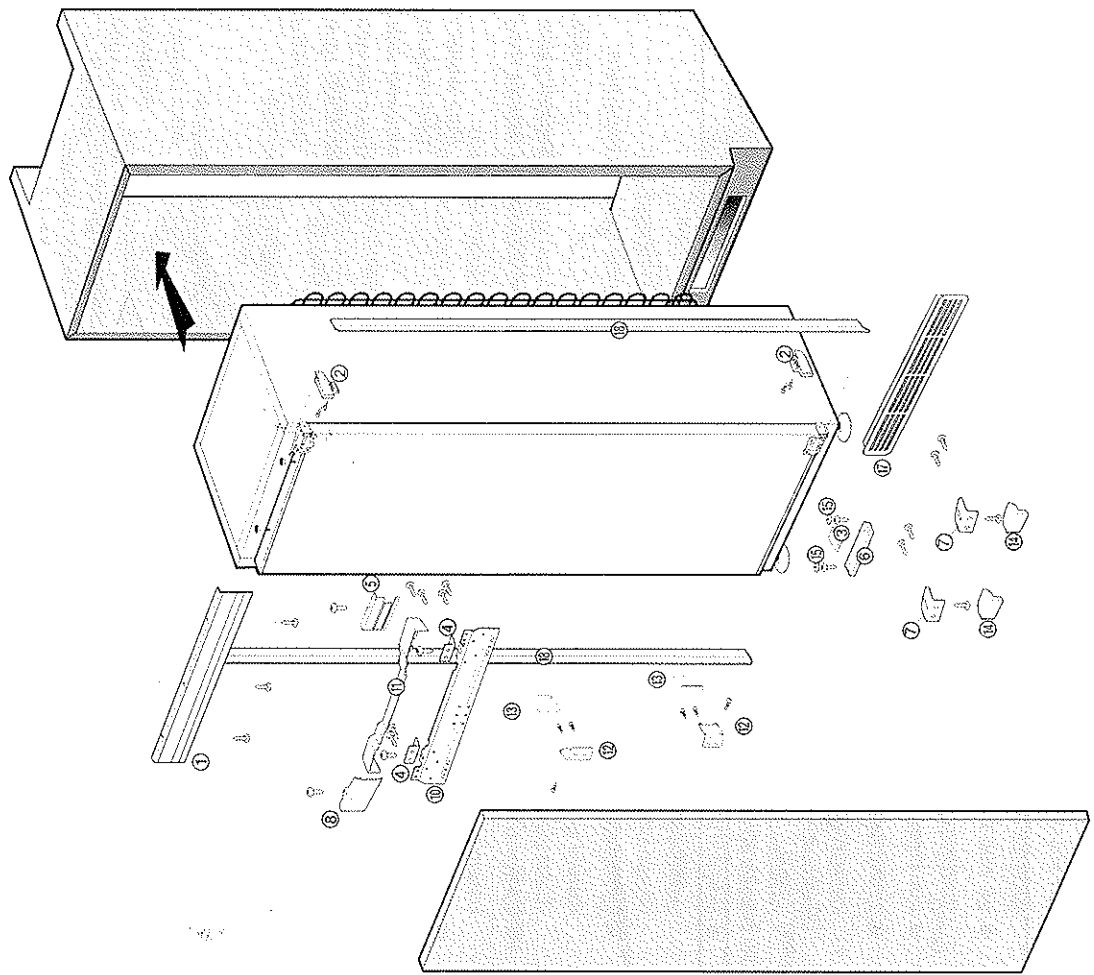
2. Components to install

Parts prepared before installing cabinet case	① Top cover	② Hinge stand	③ Bracket case	④ Depth adjust Bracket (hole size = 8mm)
	 1 unit	 2 units	 1 units	 2 units
Parts related with case after inserting cabinet case	⑤ Hinge cover	⑥ Bracket case cover	⑦ Depth adjust Bracket (hole size = 5.5mm)	⑧ Case cover
	 L: 1 unit R: 1 unit	 1 unit	 2 unit	 L: 1 unit R: 1 unit
Parts related with integrated cabinet doors after inserting product into cabinet case	⑨ Paper jig	⑩ Top bracket	⑪ Top bracket cover	⑫ Depth adjusting bracket
	 1 unit	 1 unit	 1 units	 2 unit
Parts related with finishing work	⑬ Depth adjust bracket cover	⑭ Cap screw	⑮ Hinge front cover	⑯ Air path cover
	 2 unit	 4 units  2 units	 4 units	 1 unit
				 2 units

② Wood bolting screw	⑤ Wood bolting screw	⑥ Upper bracket bolting screw	⑪ Height adjusting nut
Spec D4 x L16	Spec D4 x L12	Spec D4 x 6.5	Spec M5
Quantity 2	Quantity 16	Quantity 4	Quantity 4
③ Hinge bolting screw	④ Horizontal adjusting leg bolting screw	⑤ Spanner	
Spec M5	Spec D4 x L14	Spec	Quantity 1
Quantity 6	Quantity 4		

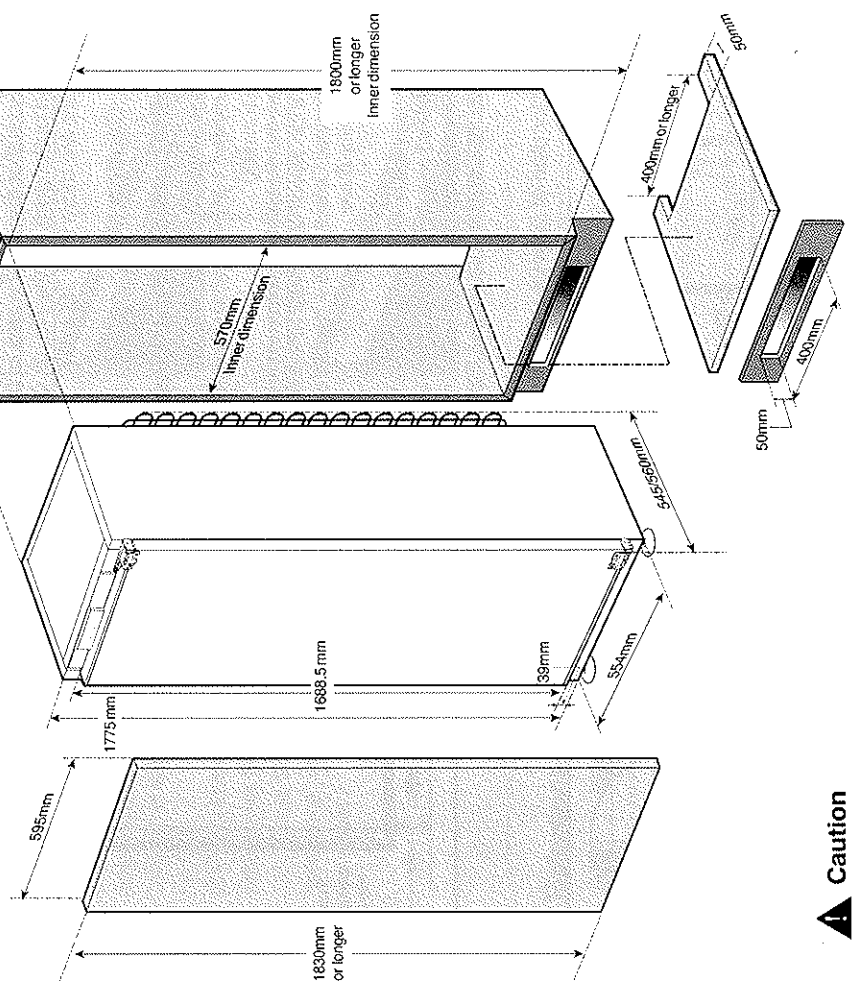
These tools are required but not supplied	Cross (+) driver	2m tape rule
		

3. Assembly/Disassembly diagram of Built-in refrigerator



4. Dimension of Built-in refrigerator and cabinet

- ※ The overall thickness of this figure is based on 15mm.
- ※ The cabinet dimension should comply with the figure.



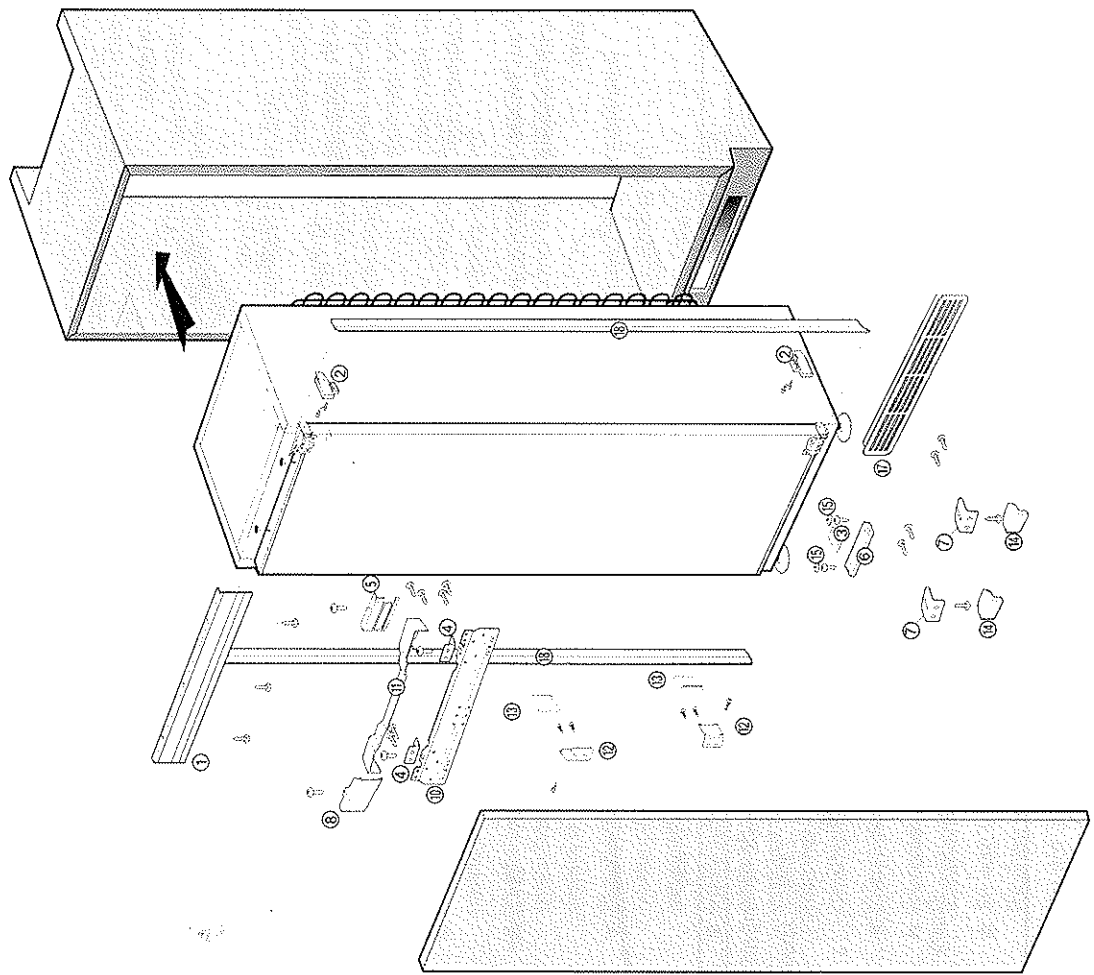
Caution

The dimension of integrated door panels changes if there is a change of cabinet material thickness.

Thickness of Cabinet Case	Dimension of Integrated Door Panel
18mm	1836mm or longer
20mm	1840mm or longer

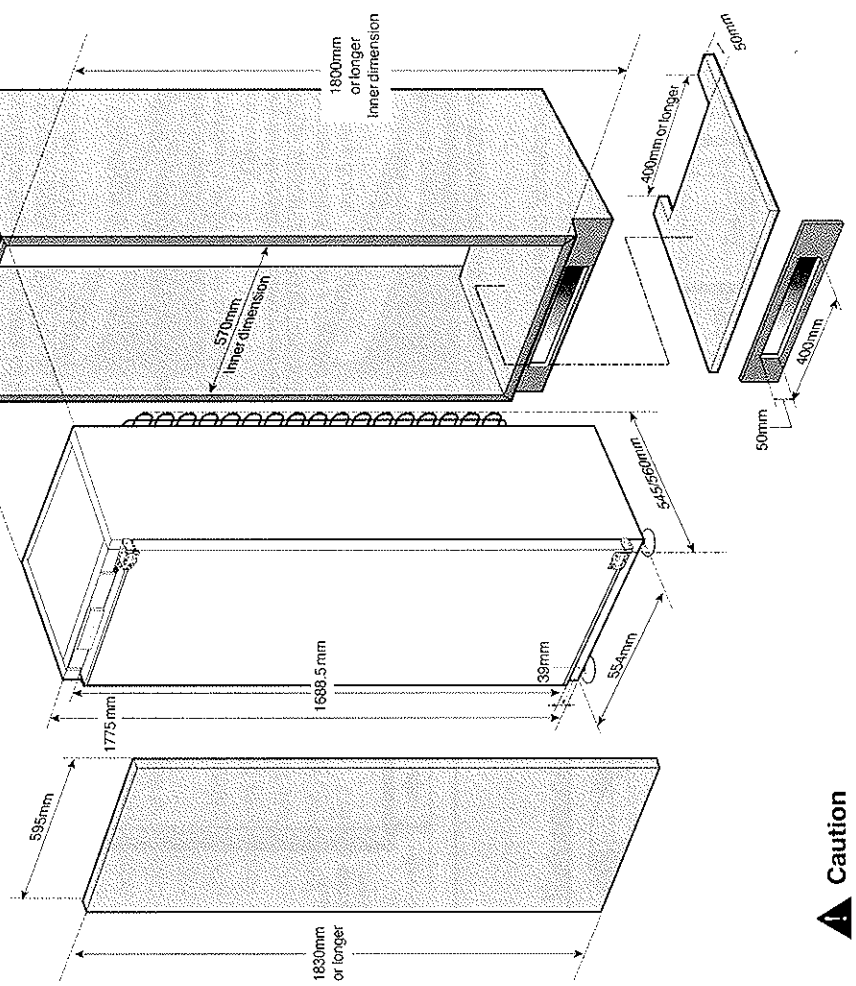
- Both the main body of the cabinet and the integrated door panel must be separated.
- The integrated door panel may sag if it is larger than the specified size.
- Install the product in such a way that all cabinet work is level both horizontally and vertically.

3. Assembly/Disassembly diagram of Built-in refrigerator



4. Dimension of Built-in refrigerator and cabinet

- ※ The overall thickness of this figure is based on 15mm.
- ※ The cabinet dimension should comply with the figure.



Caution

The dimension of integrated door panels changes if there is a change of cabinet material thickness.

Thickness of Cabinet Case	Dimension of Integrated Door Panel
18mm	1836mm or longer
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- Both the main body of the cabinet and the integrated door panel must be separated.
- The integrated door panel may sag if it is larger than the specified size.
- Install the product in such a way that all cabinet work is level both horizontally and vertically.

5. Installing the built-in refrigerator

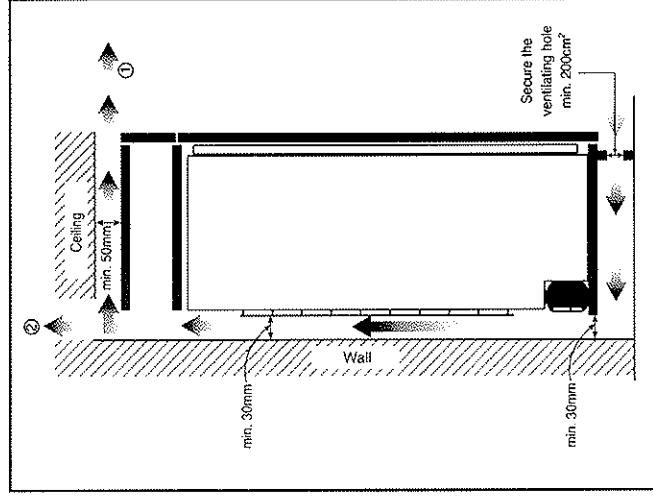
- Construct the cabinet work in accordance with these dimensions to guarantee adequate ventilation for reliable heat exchange for product.

- There must be unobstructed pathways for air circulation to enter through bottom inlet and escape through upper outlet.
- Ensure that No. ② path can be obtained in the cases where the No. ① path cannot be used.
- Ensure that the surface area of the inlet and outlet ports for the No. ①, ② air paths are more than 200cm².

⚠ Caution

Required conditions for base of cabinet.

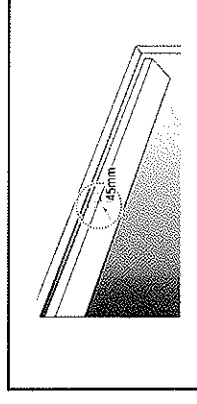
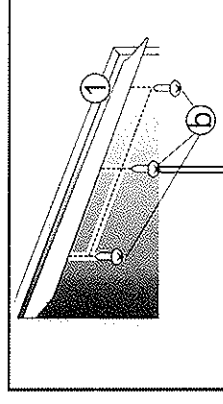
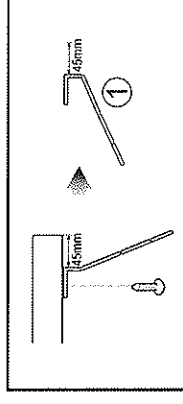
- Bottom surface :**
It is required to use T 20mm to obtain strength.
- Space stand :**
Ensure that the base is reinforced to the extent that it can support up to 200KG (Product + Food + Integrated Cabinet Doors + Shock of opening and closing doors)
- Level :**
The base must be level to assure the uniform downward pressure and distribution of weight to alleviate warping of the base. Warping may hinder the operation of the products doors.



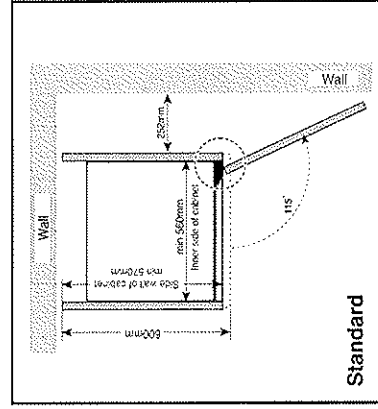
6. Procedure to install

1) Preparing before installing the refrigerator

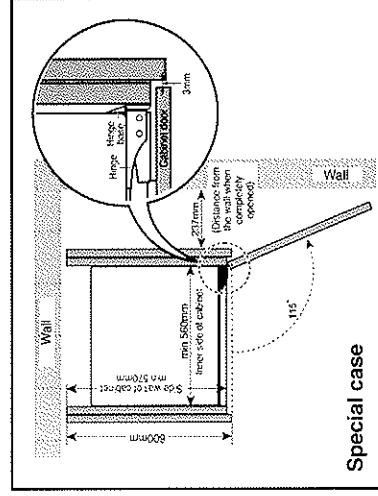
- Installing the top cover of the refrigerator
 - Fold the top cover of the refrigerator ① in advance as shown at the figure.
 - Fix the refrigerator top cover ① with the wood bolting screw ⑥ (3 places) at a point 45mm in from interior edge of cabinet at each end and also in the middle.
(The thickness of the cabinet material determines the way the top cover ① is cut. Please take notice of the below "reference" for the correct cutting of the top cover.)



■ Floor plan of cabinet and the maximum opening of the door



Standard

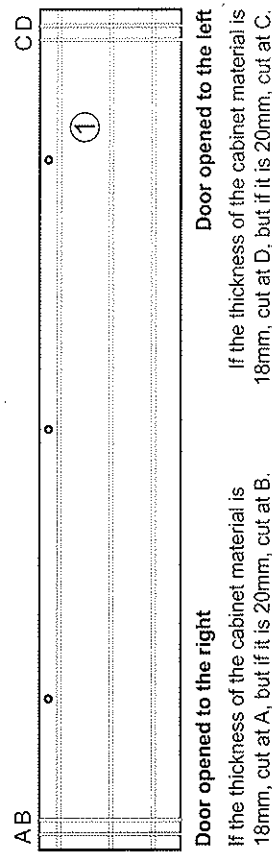


Special case

⚠ Caution

- Securely fix the side panel of the cabinet to the wall or adjacent cabinet. Because the product is anchored to the cabinet with the screws from the hinge, make sure the side panel thickness is 30mm or more.
(Additionally, if the fridge and freezer are installed side by side, make sure an additional panel of 15mm is added between them to assure a combined thickness of 30mm between them.) If the side panel is too thin, the products may be damaged if the screws pass through the panels and touch the other fridge/freezer.

※ Reference



Door opened to the right

If the thickness of the cabinet material is 18mm, cut at A, but if it is 20mm, cut at B.

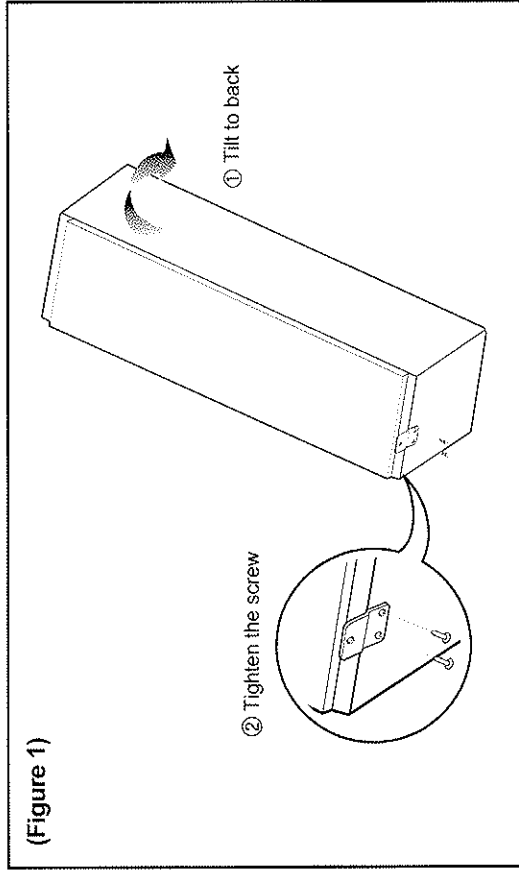
Door opened to the left

If the thickness of the cabinet material is 18mm, cut at D, but if it is 20mm, cut at C.

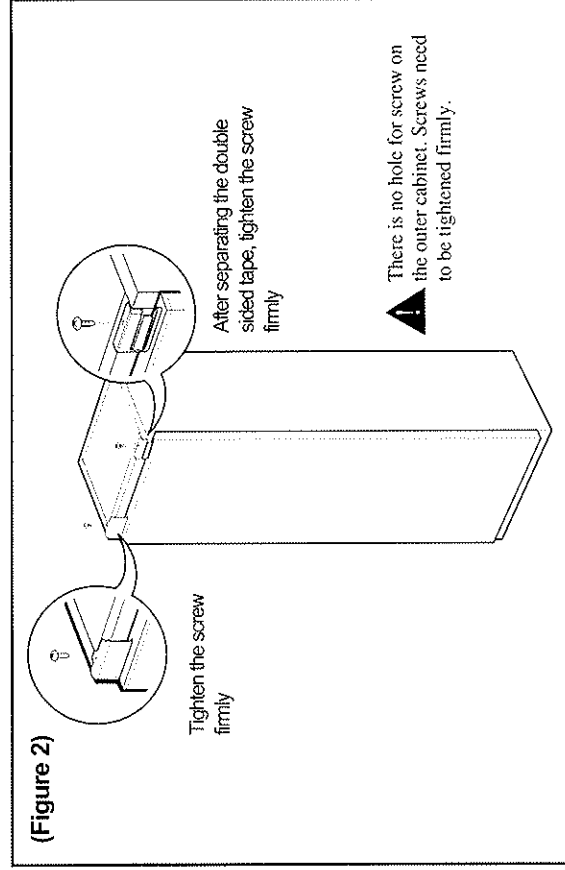
6. Procedure to install

1) Preparing before installing the refrigerator

1. Assembly bracket



2. Assembly cover

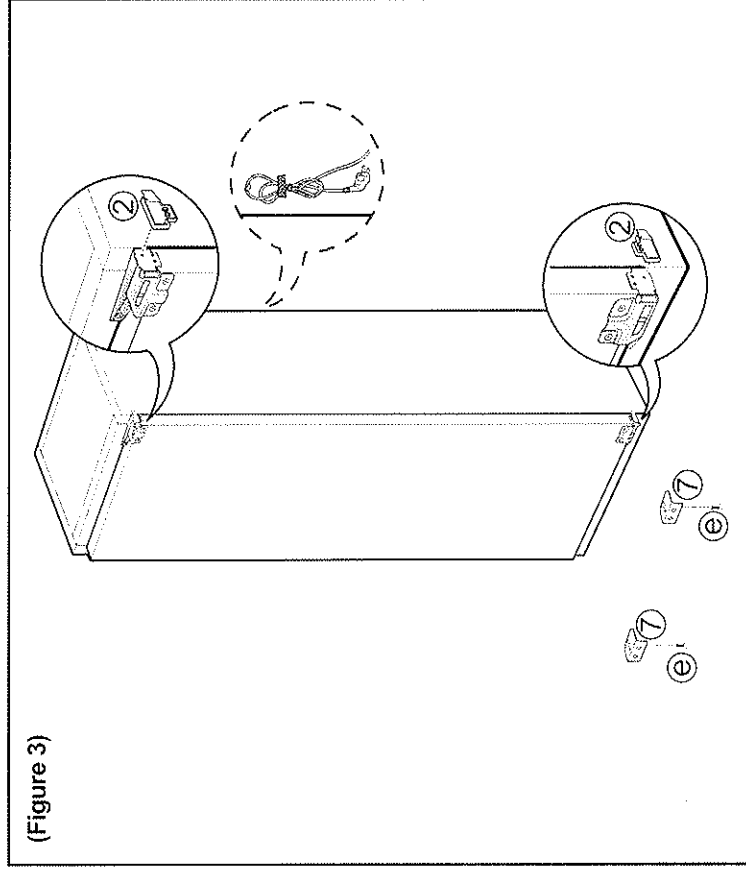


6. Procedure to install

1) Preparing before installing the refrigerator

2. Insert the hinge base ② into the hinges (two spots). (See Figure 1) (If the thickness of the cabinet is 20mm, do not install the hinge base ②.)
3. Lean the refrigerator backward and then fix the depth adjust bracket ⑦ at the bottom (two spots) of the refrigerator door by using the hinge screws ③ as shown at the figure.

⚠ If there is any excess length on the power cord, hang the excess up on a holder, or hook so that it cannot be crushed or damaged by the product when it is installed into the cabinet.



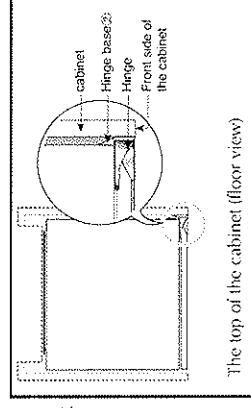
2) Case-related Work After Inserting Refrigerator

4. Draw the power cable through the back of the cabinet.

⚠ Be careful that the power cord is not trapped beneath the refrigerator as you install it into the cabinet. The cord may be crushed and damaged resulting in a fire hazard. Hang it on the rear holder if possible.

5. Insert the refrigerator into the cabinet so that the end of the hinge stand ② align to the front part of the cabinet.

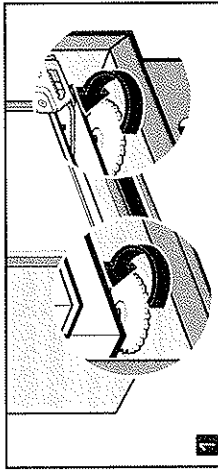
⚠ Caution must be taken not to jam your hands between refrigerator and cabinet when inserting refrigerator into cabinet.



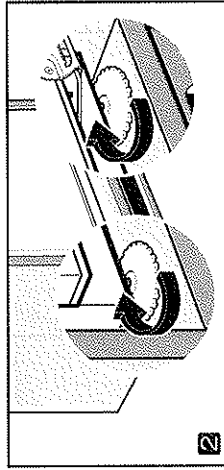
6. Procedure to install

2) Cabinet related work after inserting the refrigerator

6. Adjust the horizontal/vertical level of the refrigerator by turning the level adjusting leg(⑧).

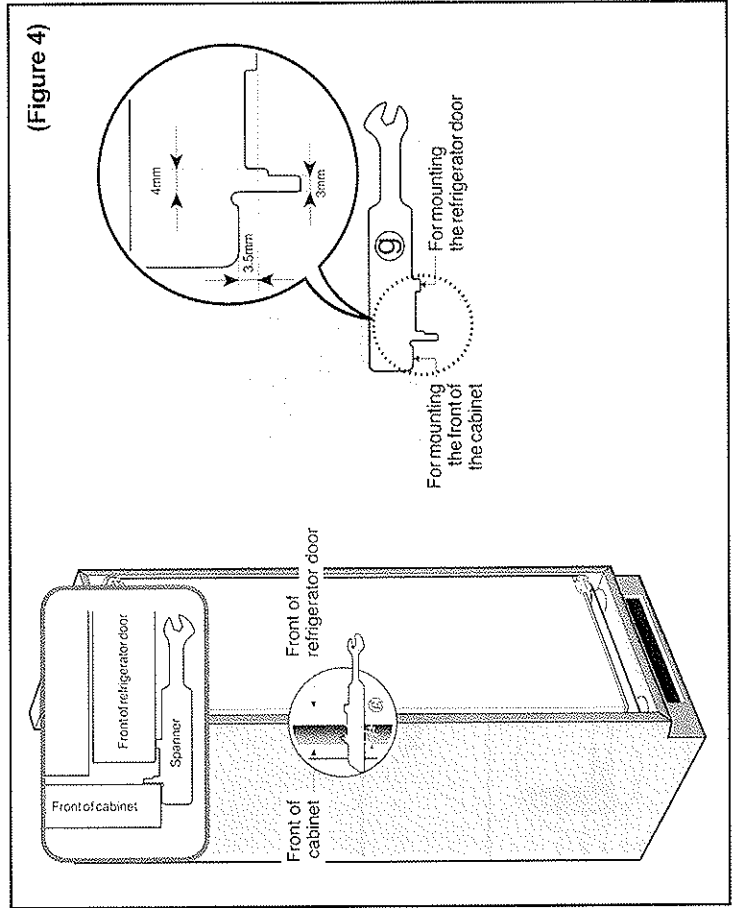


1 When the unit tilts backwards. Adjust by turning the horizontal adjusting leg anti-clockwise since the refrigerator leans backward.



2 When the unit tilts forwards. Adjust by turning the horizontal adjusting leg clockwise since the refrigerator leans forward.

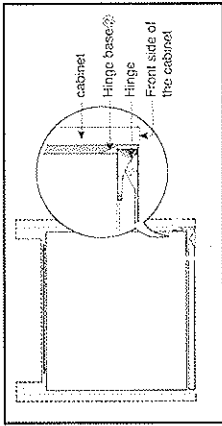
Check that the depth dimensions of the front part of the cabinet and the front part of refrigerator door are constant by using the spanner ⑨ (See Fig. 4).



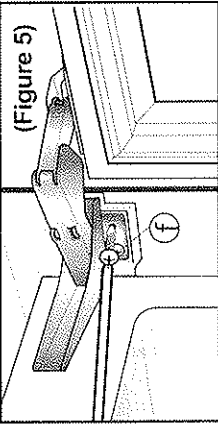
6. Procedure to install

2) Cabinet related work after placing the refrigerator

7. Make sure that the end of the hinge base ② is aligned with the front right of the cabinet.

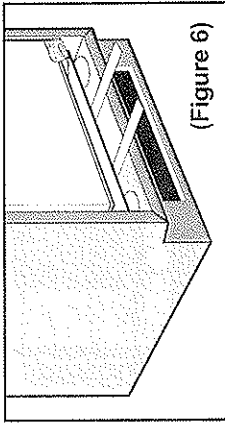


8. Fix the top hinge and the bottom hinge by the hinge screws ⑤ (four spots). (See Figure 5)



⚠ Be careful when working on hinges as you may be injured by the hinge operation if the door moves.

9. Check that the left / right depth interval as in Figure 6 is constant by using a ruler.

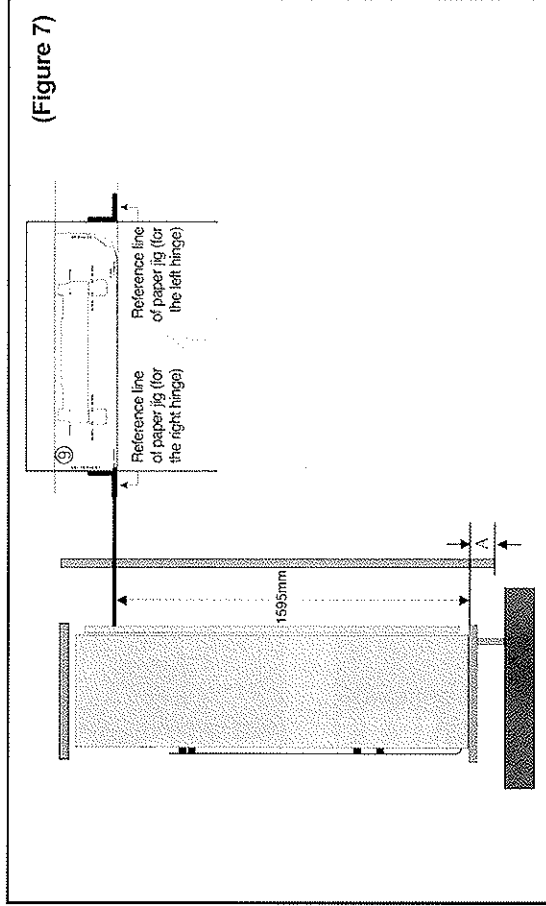


6. Procedure to install

3) Furniture door related work

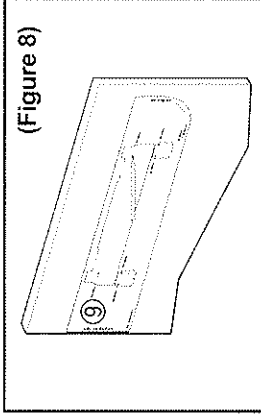
12. Place the paper jig ⑨ on the reference line of the paper jig at the rear side of the furniture door. (See Figure 7)

※ **Reference** - Place the reference line of the paper jig at 1595mm from the floor of the cabinet.
- If the integrated door panel is long, place the reference line of the paper jig at 1595mm plus 'A' from the floor of the furniture.



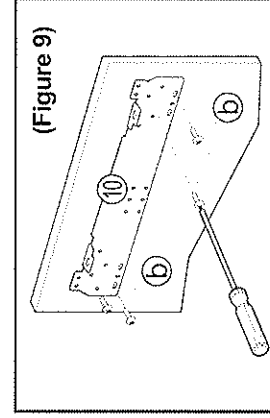
13. Mark two points in the paper jig ⑨ on the integrated door panel. (See Figure 8)

⚠ Before fixing with the wood screw ⑥, double check the indicated point is located in an accurate position.



14. After removing the paper jig ⑨, fix the top bracket ⑩ of the integrated door panel by using the wood screw ⑥ (4 places) with the top two holes lined up to the marked spots (from the paper jig) on the integrated door panel. (See Figure 9).

※ **Reference** - If you need to re-position top bracket due to incorrect positioning. Align top two holes to remarked position (from jig) but use alternate holes to fix to assure screws hold firmly.

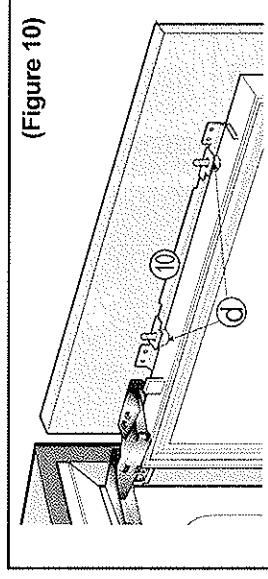


6. Procedure to install

4) Refrigerator door related work

15. Insert the height adjusting nuts ④ (two spots at the bottom) onto the height adjusting screw, and then place the top bracket ⑩ of the integrated door panel onto the height adjusting screw of the top of the refrigerator door. Use the height adjusting nut to adjust the height of the integrated door panel and set the level. (See Figure 10)

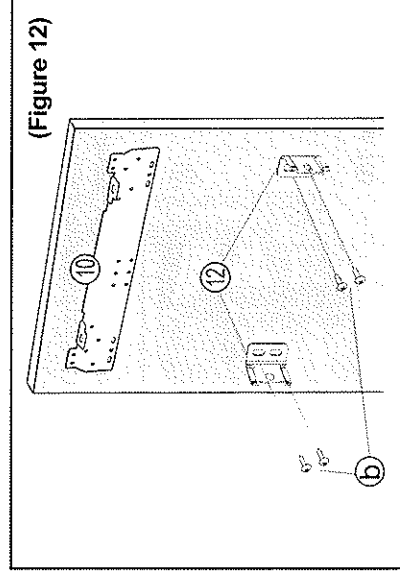
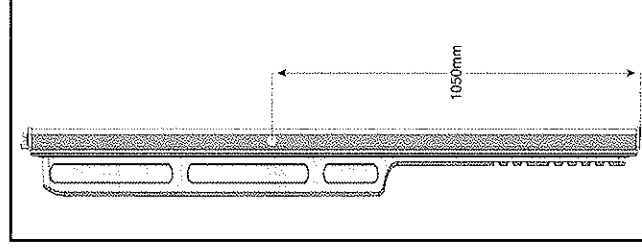
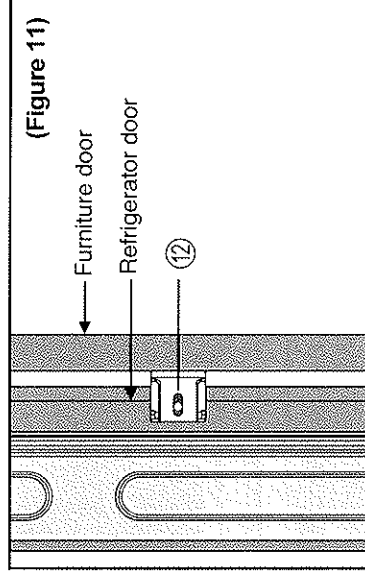
⚠ Be careful to align the top bracket holes onto the adjusting screws to prevent the integrated door panel from falling and causing personal injury or damage to the integrated door panel.



16. Check the place where the hole of the depth adjusting bracket ⑫ is aligned with the hole of the refrigerator door (Figure 11), and fix the depth adjusting bracket ⑫ to the left/right (four spots) of the integrated door panel with the wood screw ⑥. (Figure 12)

※ Reference

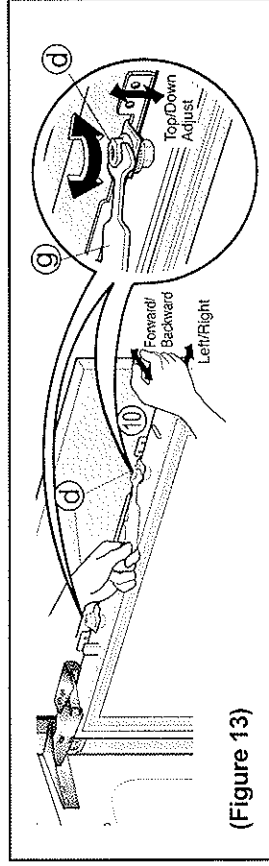
The door hole is located at 1050mm from the door floor.



6. Procedure to install

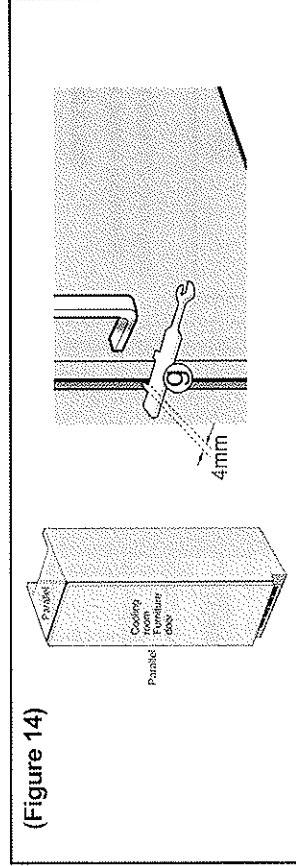
4) Refrigerator door related work

17. Loosely fix the top bracket ⑩ with the height adjusting nuts ③ (Figure 13), and adjust the depth gap between the integrated door panel and the front of the cabinet to 4mm. At this time, adjust the location of the integrated door panel so as not to touch or make contact with the face of the cabinet when opening/closing the door.



(Figure 13)

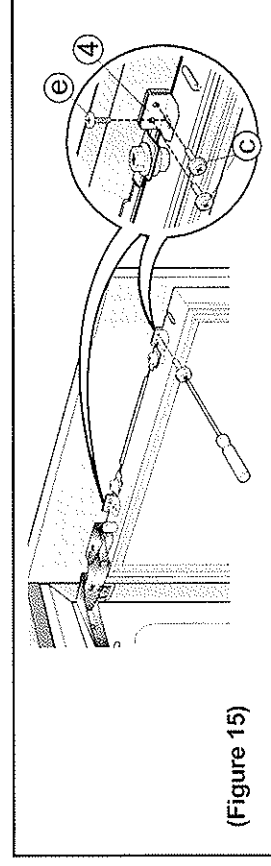
18. Use the spanner ⑧ to check the dimension. (See Figure 15)



(Figure 14)

19. If the dimension is not correct, loosen the height adjusting nuts ③, the door screw ⑨ and the wood screw ⑥, and repeat the work starting from Step 12.

20. Place the depth adjusting bracket ④ as shown at the figure, fix it with the bracket screw ① (two spots), and fix with the top bracket screws ② (four spots). (See Figure 15) Secure the height adjusting nuts ③ to fix the top bracket ⑩.

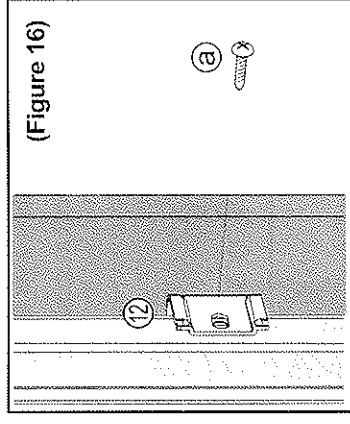


(Figure 15)

6. Procedure to install

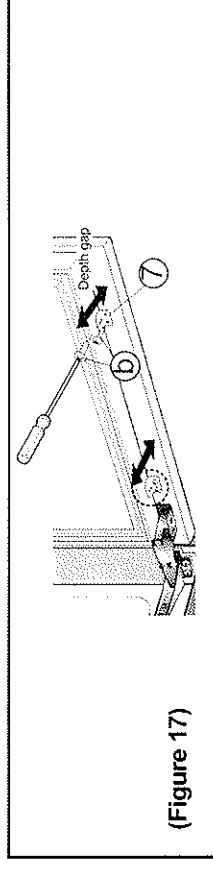
4) Refrigerator door related work

21. Move the integrated door panel in or out to adjust the depth gap to 4mm (See Figure 14), and fix the depth adjusting bracket ⑫ to both sides (two spots) of the refrigerator door with the door screw ③. (Figure 16)



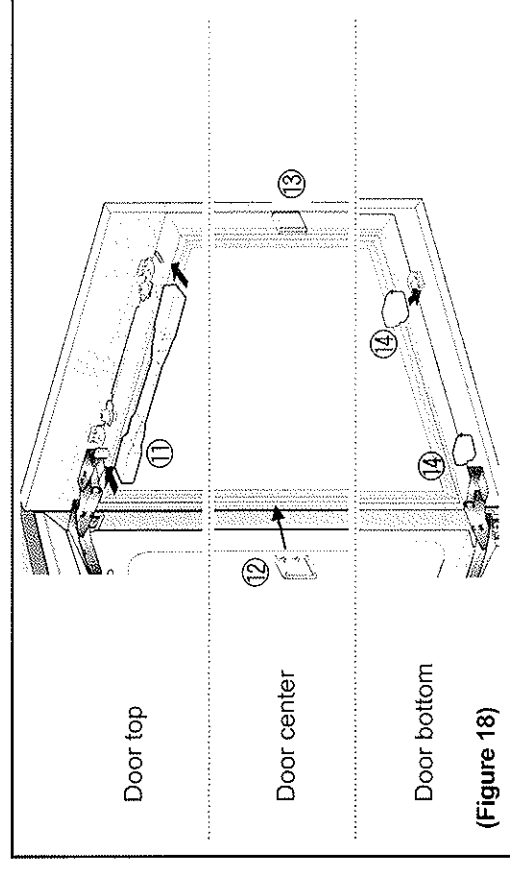
(Figure 16)

22. Use the wood screws ⑦ (four spots) to the depth adjusting bracket ⑦, move the integrated door panel in or out to adjust the depth gap to 4mm (See Figure 14, Figure 17), and secure the loosely fixed bracket screw ③ (Figure 1) to fix the depth adjusting bracket ⑦.



(Figure 17)

23. Place the top bracket cover ⑪ on the door top and place the depth adjusting bracket cover ⑬ and ⑭ on the middle and the bottom of the door respectively. (See Figure 18)



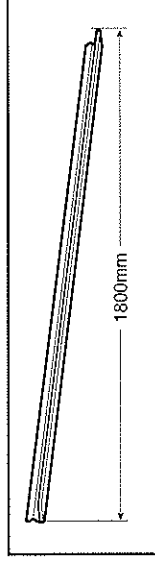
(Figure 18)

6. Procedure to install

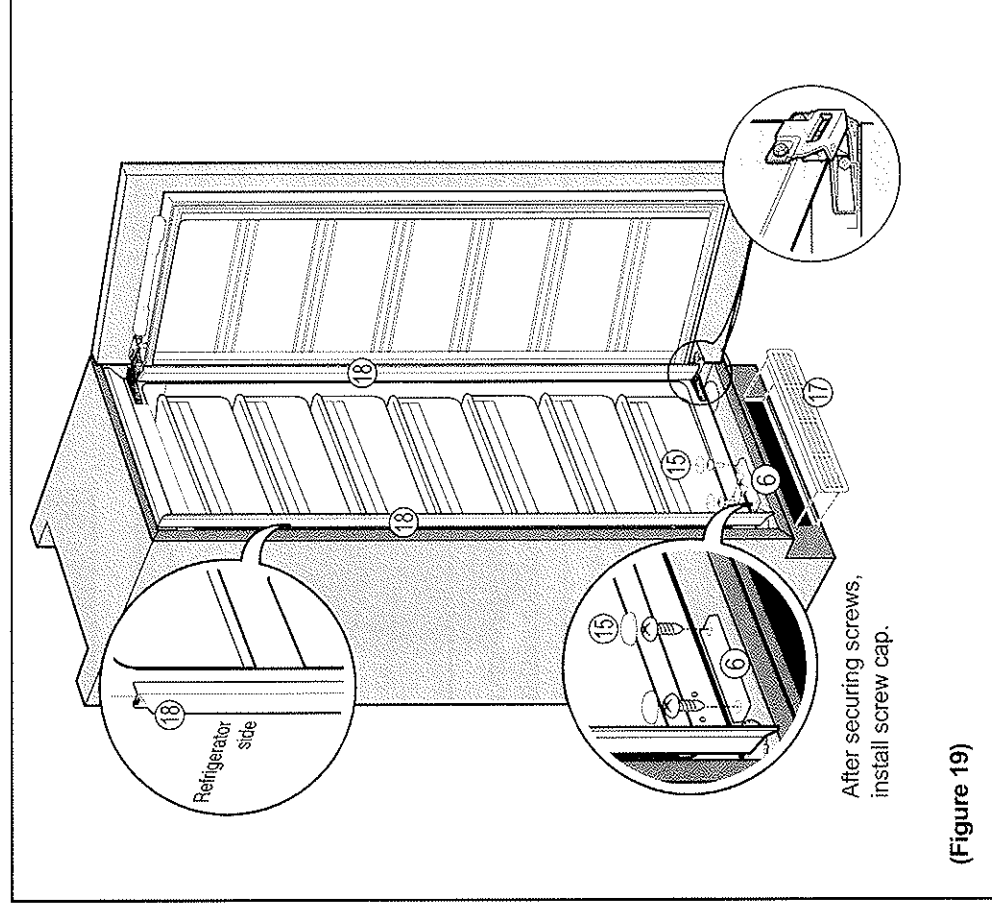
5) Installation checkup and finishing work

24. Insert the ventilation cover ⑰ into the rectangular hole on the front of the cabinet base.

25. Attach the gasket ⑬ as shown in the figure. Attach it to the opposite side from the hinge side. If the gasket is too long, cut it to the necessary length required.



26. Insert the screw cap ⑮ as shown at the figure.



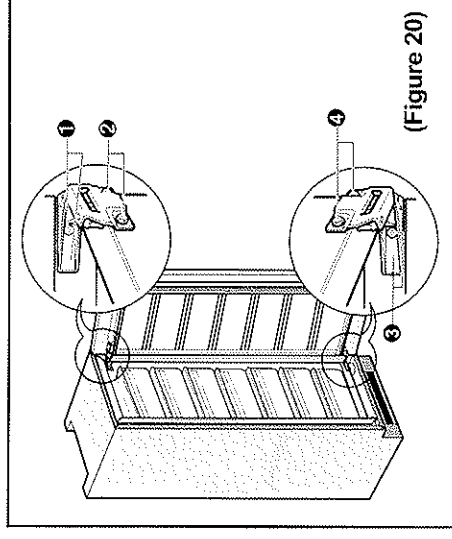
(Figure 19)

6. Procedure to install

6) Changing the opening direction of the refrigerator door

※ Perform work for changing the door before installation.

1. Loosely release the screws ①, ③ of the hinge on the case part of the refrigerator and then separate the door by pushing it to the right (See Figure 20).



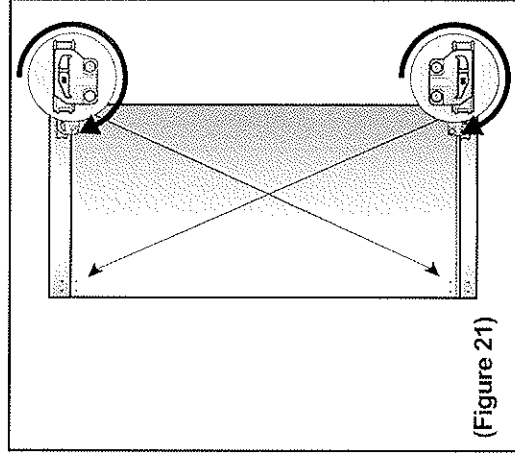
(Figure 20)

2. Release the screws No. ①, ③ completely and then fix them loosely to the reverse side (See Figure 21)

3. Loosen the screws ② and ④ fixed to the door to disconnect the hinge.

4. Move the separated hinges

(Figure 24) diagonally and fix it to the door by turning the hinge by 180°. Fix the hinge to the door with screws No. ②, ④.



(Figure 21)

5. Align the door hinge with screws No. ①, ③ on the case and push from left to right to lock in.

6. Adjust the up/down or the left/right interval of the refrigerator door so that leaning should not occur to either side, and then tighten screws.

7. After fixing the hinge, insert the screw caps ⑮ (two spots) at the opposite holes of the hinge.

6. Procedure to install

7) Furniture door gap

※ When installing two pieces of furniture closely, keep the gap between them 5mm or more.

